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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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12/14/2005

Yoshifumi Sato

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SUGHRUE MION, PLLC
2100 PENNSYLVANIA AVENUE, N.W.
SUITE 800
WASHINGTON, DC 20037

EXAMINER

NGUYEN, JIMMY H

ART UNIT

PAPER NUMBER

2629

NOTIFICATION DATE

DELIVERY MODE

11/27/2009

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

sughrue@sughrue.com
PPROCESSING@SUGHRUE.COM
USPTO@SUGHRUE.COM

Office Action Summary	Application No. 10/560,786	Applicant(s) SATO, YOSHIFUMI	
	Examiner JIMMY H. NGUYEN	Art Unit 2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 December 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>12/14/05, 11/19/07</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This Office Action is made in response to applicant's papers filed on 12/14/2005. Claims 1-10 are currently pending in the application. An action follows below:

Drawings

2. Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

3. Claim 6 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. In the instant case, claim 6 depends upon a dependent claim 5.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 2-7 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in

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the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

As to claim 2, this claim contains the limitations, “wherein the operation section has at least one input selection switch to select at least one of the plurality of input terminals, and the display control section carries out at least one of the first and second operations in accordance with the operation of the at least one input selection switch by the user” in last 6 lines, which are inconsistent with the disclosure, specifically figure 2 and the corresponding specification at pages 27-30, which discloses that only when the input selection switch of the operation section selects a **digital input terminal** from the plurality of input terminals, the display control section carries out at least one of the first and second operations, i.e., controls the shift switch of the memory and connects the corresponding memory to the digital input terminal; while when the input selection switch selects an analog input terminal from the plurality of input terminals, the display control section **does not** carry out the first or second operation. Therefore, when the input selection switch selects an analog input terminal from the plurality of input terminals, how the display control section can carry out the first or second operation.

Furthermore, since the term “at least one” includes “one”, “two” or “plural”, the above underlined limitations include at least features (i) “the operation section has ONE input selection switch to select ALL of the plurality of input terminals” and (ii) “the operation section has PLURAL input selection switches to select one of the plurality of input terminals”, which are inconsistent with the specification corresponding to figures 6 and 12, which discloses two or more switches used to select all of the plurality of input terminals. In other words, the specification does not fairly describe how a single input selection switch to select ALL of the

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plurality of input terminals and how the plural input selection switches to select an input terminal.

Accordingly, this claim contains the above underlined limitations, which were not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

As to claims 2-6, since these claims depend upon claim 2, these claims are therefore rejected for the same reason set forth in claim 2 above.

As to claim 7, this claim contains the limitations, “an input selection switch which selects one of the plurality of input terminals, which include one digital input terminal to receive a digital display signal, at least one analog video input terminal to receive an analog video signal, and at least one analog PC input terminal to receive an analog PC signal, wherein **the memory shift switch is switched in accordance with a selection result by the input selection switch**” in lines 2-6 and lines 16-19. The specification at page 23, lines 4-22 only discloses that the memory shift switch is switched in accordance with a selection of either a **digital video signal** from the receiver section 1 or a **digital PC signal** from the receiver section 2 by using the input selection switch and the memory shift switch is switched to the corresponding first or second memory section when the **digital input terminal** is selected. Therefore, when the input selection switch selects an analog video input terminal or an analog PC input terminal from the plurality of input terminals, how the memory shift switch is switched in accordance with a selection of an analog video input terminal or an analog PC input terminal.

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Accordingly, this claim contains the above underlined limitations, which were not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

7. Claims 7-10 are rejected under 35 U.S.C. 102(a) as being anticipated by Applicant's Admitted Prior Art (see Fig. 1 and the corresponding specification at pages 1-10), hereinafter AAPA.

As to claims 7-10, AAPA discloses a display device (Fig. 1) and an associate display method (specification at pages 1-10), the display device (Fig. 1) comprising:

a plurality of input terminals (111-115) which include one digital input terminal (115) to receive a digital display signal (specification at page 3, lines 11-17), at least one analog video input terminal (111, 112) to receive an analog video signal (specification at page 3, lines 1-5), and at least one analog PC input terminal (113, 114) to receive an analog PC signal (specification at page 3, lines 6-10);

a display signal processing section (121) which selects one of the plurality of input terminals (111-115), and carries out signal processing on a display signal input from the selected input terminal in order to display the display signal on a display section in a format suited to the display section (specification, page 4, lines 15-26);

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a first memory section (103) which stores the first display specifications information being EDID of consumer electronic equipment (specification, page 4, line 3);

a second memory section (104) which stores the second display specifications information being PC equipment EDID (specification, page 4, lines 3-4);

a memory shift switch (105, 106), which connects the digital input terminal to the first (103) or second (104) memory section (specification, page 4, lines 1-8); and

an input selection switch (107) which selects a digital input terminal (115) (specification, page 6, lines 15-18), wherein the memory shift switch (105, 106) is switched in accordance with a selection result by the input selection switch (specification, page 6, lines 15-21), and the display signal processing section (121) determines the display signal to be displayed on the display section (specification, page 7, lines 16-21).

Accordingly, all limitations of these claims are read in the AAPA.

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over AAPA, and further in view of Shirasaki et al. (US 6,943,753 B2), hereinafter Shirasaki.

As to claim 1, AAPA discloses a display device (Fig. 1) comprising:

a plurality of input terminals (111-115) which receive a plurality of display signals and include a digital input terminal (115) to receive a digital display signal (specification at page 3,

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lines 11-17), at least one analog video input terminal (111, 112) to receive an analog video signal (specification at page 3, lines 1-5), and at least one analog PC input terminal (113, 114) to receive an analog PC signal (specification at page 3, lines 6-10);

a display signal processing section (121) which selects one of the plurality of the display signals received at the plurality of input terminals (111-115) (see Fig. 1; specification, page 4, lines 15-26);

a first memory section (103) which stores the first display specifications information being EDID of consumer electronic equipment (specification, page 4, line 3);

a second memory section (104) which stores the second display specifications information being PC equipment EDID (specification, page 4, lines 3-4);

a memory shift switch (105, 106), which connects the digital input terminal (115) to either the first memory section (103) or the second memory section (104) (Fig. 1; specification, page 4, lines 1-8);

a display control section (122; Fig. 1) which controls an operation of the display signal processing section (121) (Fig. 1; specification, page 4, line 15 to page 5, line 1), wherein:

the first display specifications information is specifications information for the display signal which is introduced into the digital input terminal (115) and the second display specifications information is another specifications information for the display signal which is introduced into the digital input terminal (115) (specification, page 4, lines 1-4);

the display control section (122) carries out a first operation, in which the display control section controls the display signal processing section (121) so as to select the display signal

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corresponding to the first display specifications information (specification from page 6, line 15 to page 7, line 21); and

the display control section carries out a second operation, in which the display control section controls the display signal processing section so as to select the display signal corresponding to the second display specifications information (specification from page 7, line 22 to page 8, line 14).

AAPA does not disclose the display control section (122) controls the memory shift switch (105, 106) so as to connect the first memory section to the digital input terminal and the second memory section to the digital input terminal.

Accordingly, AAPA discloses all limitations of this claim except for the display control section (122) controlling the memory shift switch (105, 106) so as to connect the first memory section to the digital input terminal and the second memory section to the digital input terminal, as defined in this claim.

However, Shirasaki discloses a display device comprising a display control section (discrimination means 76; Fig. 7), in response to an input channel switching request signal from the user, controlling an operation of the display signal processing section (an input channel switching means 56) and the memory shift switch (DDC control means (55) so as to connect the first memory section, which stores the EDID data of the digital specification, to the digital input terminal and the second memory section, which stores the EDID data of the analog specification to the input terminal (Figs. 7-8; col. 6, lines 27-48; col. 14, lines 16-26). It would have been obvious to a person of ordinary skill in the art at the time of the invention was made to modify the display control section of AAPA so as to be capable of controlling an operation of the display

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signal processing section (an input channel switching means 56) and the memory shift switch, in response to an input channel switching request signal from the user, in view of the teaching in the Shirasaki reference, because this would provide a display device capable of automatically making a correct setting of input channel, as taught by the Shirasaki reference (see col. 3, lines 22-27).

As to claim 6/1, AAPA discloses the first display specifications information being EDID (extended display identification data) of consumer electronics equipment, and the second display specifications information being EDID of a personal computer (Fig. 1; specification at page 2, lines 18-19).

As to claims 2 and 5/2, as discussed in the rejection to claim 1 above, AAPA in view of Shirasaki discloses all limitations of these claims, including the display control section carrying out the first and second operations in accordance with the input channel switching request signal from the user. AAPA in view of Shirasaki does not teach the display device comprising an operation section which is connected to the display control section by radio and includes at least one input selection switch to select at least one of the plurality of input terminals.

Accordingly, AAPA in view of Shirasaki discloses all limitations of these claims except for an operation section, which is connected to the display control section by radio and includes at least one input selection switch to select at least one of the plurality of input terminals.

However, Official Notice is taken that both the concept and the advantages of providing, to a display device, a radio remote control (i.e., the claimed operating section), which is connected to

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the display section by radio and includes at least one input selection switch for providing an input channel switching request signal, to allow the user to select a desired input signal from a remote distance, are well-known and expected in the art. Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to provide a radio remote control in the display device as this remote control is known to allow the user to select a desired input signal from a remote distance.

As to claims 3-4, as discussed in the rejection to claim 1 above, AAPA discloses a plurality of input terminals (111-115), which include at least one analog video input terminal (111, 112) to receive an analog video signal (Fig. 1; specification at page 3, lines 1-5), at least one analog PC input terminal (113, 114) to receive an analog PC signal (Fig. 1; specification at page 3, lines 6-10), and a digital input terminal (115) to receive a digital display signal (Fig. 1; specification at page 3, lines 11-17). Further, see the Office Notice in the rejection to claim 2 above. Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to obtain the invention defined by these claims.

As to claims 5/3 and 5/4, see the rejection to claim 5/2 above regarding to the remote control (or the claimed operating section) connected to the display section by radio.

As to claims 6/2-5, see the rejection to claim 6/1 above.

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jimmy H. Nguyen whose telephone number is 571-272-7675.

The examiner can normally be reached on Monday - Friday, 8:00 a.m. - 4:30 p.m..

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached at 571-272-7681. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Jimmy H Nguyen/

Primary Examiner, Art Unit 2629